

# ARE YOU WATER SMART?

**Tucson Water's reclaimed water system of purple pipes delivers irrigation quality water to approximately \_\_\_\_\_ customers.**

☐ 200      ☐ 400      ☐ 900

There are approximately 900 commercial sites, median areas and more than 700 residences, 80 commercial sites, 65 schools, 100 plus parks, customers: 18 golf courses, 55 schools, 100 plus parks, 80 commercial sites, median areas and more than 700 residences.

**Answer:**

**WATER**  
*Etc.*

## Customer Question

**I want a pretty landscape that doesn't consume too much water. Are there free classes where I can learn about water-smart landscaping for my home?**

Yes! Tucson Water sponsors year-round, free workshops for homeowners through Pima County SmartScape Program. Attendees learn



techniques and practical applications for water-efficient landscaping that's compatible with our urban desert environment. Classes are popular and seating is limited, so reservations are suggested. For more info or to sign up, go to [ag.arizona.edu/pima/smartscape](http://ag.arizona.edu/pima/smartscape) or call (520) 626.5161, extension 120.



# WATER MATTERS

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Tucson Water's **new Advanced Oxidation Process (AOP) Treatment Facility**

is using cutting edge technology to remove contaminants and purify drinking water.

(See *Working with Water*, pg. 4 & 5)



[tucsonaz.gov/water](http://tucsonaz.gov/water)

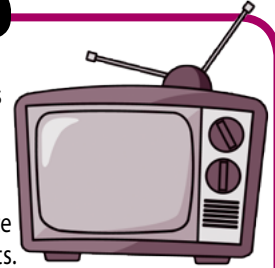
## CITY OF TUCSON ENVIRONMENTAL SERVICES

Don't  
Trash  
a TV!

"How can I get rid of my old TV?" is the number one question Environmental Services receives from customers. A TV tossed in the trash, put in Brush & Bulky or illegally dumped may release harmful metals like lead, mercury, cadmium and more into our environment. Instead of tossing that TV, you can recycle it, sell it or donate it:

- ⊗ If a TV works, most charitable thrift shops will accept it for resale. Check with Goodwill, ReStore and others. Most will also pick-up the TV.
- ⊗ Best Buy will accept old and non-working TVs at no charge. Go to the Best Buy website at [www.bestbuy.com](http://www.bestbuy.com), click on the "Services" tab and look for "Recycling Your Old Products" to ensure your TV meets Best Buy size guidelines before dropping it off.

- ⊗ Rise Inc. collects TVs at the 1st Saturday Household Hazardous Waste Collection Events. A \$10 fee per TV offsets disposal costs – [www.tucsonaz.gov/es/household-hazardous-waste](http://www.tucsonaz.gov/es/household-hazardous-waste)



- ⊗ Visit the Tucson Clean & Beautiful Recycling Directory to find a convenient location that will accept your TV – [tucsoncleanandbeautiful.org/recycling-education/recycling-directory/](http://tucsoncleanandbeautiful.org/recycling-education/recycling-directory/)

## PIMA COUNTY WASTEWATER RECLAMATION

Are You Bugged  
by Sewer Roaches?

The Pima County Wastewater Reclamation Department has a roach control program, to reduce the number of roaches in our sanitary sewer system.

If you are bugged by sewer roaches, please call us at **(520) 724-3401** and leave your name, address and phone number on our automated voice messaging system.

Find more information about our sewer roach control program on our website:

[www.pima.gov/government/wastewaterreclamation](http://www.pima.gov/government/wastewaterreclamation)

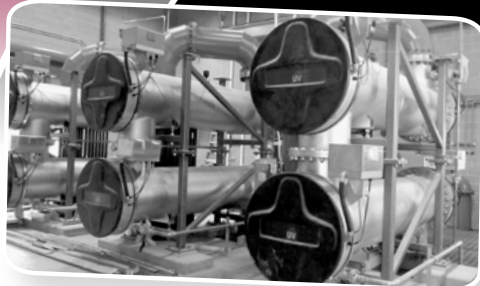


Your utilities services statement includes fees for your water, environmental services, and wastewater.

**Environmental Services (ES)** (520) 791-3171 or visit [tucsonaz.gov/esd](http://tucsonaz.gov/esd)

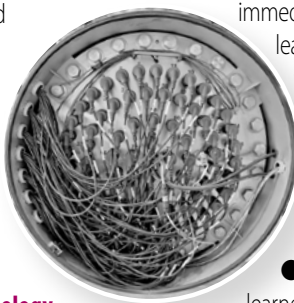
**Pima County Regional Wastewater Reclamation Department (PCRWRD)** (520) 724-6500 or visit [www.pima.gov/government/wastewaterreclamation](http://www.pima.gov/government/wastewaterreclamation)

# WORKING WITH WATER



January 2015 marked the one-year anniversary for Tucson Water's newest and most high-tech water treatment operation, the **Advanced Oxidation Process (AOP) Treatment Facility**. **Water Program Superintendent Chad Lapora**, responsible for the maintenance, repair and operations of the Utility's special water quality treatment "campus," offers up some interesting AOP history and thoughts about the future.

● **Why is the new Advanced Oxidation Process Treatment Facility located in southeast Tucson near the Tucson International Airport?** "From the 1940s to the 1970s industries near the airport released trichloroethylene (TCE), 1,4-dioxane, solvents and other contaminants as by-products of manufacturing. These hazardous wastes seeped into the ground and contaminated an area of our underground water table. Tucson Water's AOP Facility is located adjacent to the existing Tucson Airport Area Remediation Project (TARP) Plant, built back in the early '90s. Together these facilities contain and treat this underground plume of contaminated water."



● **How does advanced oxidation technology work?** "It combines ultraviolet (UV) light with water dosed with hydrogen peroxide to create a strong oxidant that breaks up 1,4-dioxane into harmless pieces."

● **"The AOP Facility is unique in so many ways:** It uses **Star Wars**-type technology to destroy 1,4-dioxane, TCE and other contaminants. We aren't dealing with this type of contamination anywhere else in the system."

● **How much water does the AOP treat a day?** "About 6 million gallons of water a day. The volume of water treated by the AOP is small, but if not treated properly, it's water that could pose major public health and safety impacts to our community."

● **"We are using new technology to sample and detect water contaminants at lower and lower levels. Plus we are sampling at more points in the AOP treatment process to ensure water is safe and high quality.** We sample at three points before water is treated at the AOP facility, sample immediately after AOP treatment, sample as water enters and leaves the TARP, and then sample water before it enters the distribution system. The Environmental Protection Agency (EPA) does not regulate 1,4-dioxane levels, but Tucson Water delivers drinking water that tests well below the EPA's advisory level for 1,4-dioxane of 0.35 parts per billion."

● **What's the future for AOP technology?** "We've learned a lot in year one operating the AOP Facility. Our hands-on experience with AOP and its success in removing contaminants may well be a future application for turning recycled water into drinking water."

CLICK

[tucsonaz.gov/  
water](http://tucsonaz.gov/water)

WATCH

  
tucsonwater

CALL

**English & Español:**  
(520) 791-4331

TDD

(520) 791-2639

SOCIAL





## Water **Reliability**

## EFFICIENCY HIGHLIGHTS



**What Tucson  
Water is Doing**

**What You  
Can Do**

Like · Comment · Share



Like this

Expanding the ways  
we communicate,  
using Facebook, Twitter  
and Instagram.

Connect to Tucson Water  
in new and different ways.  
Please Like, Share, and Follow  
Tucson Water.

## HOW THE ADVANCED OXIDATION PROCESS WORKS

TUCSON WATER USES ADVANCED  
OXIDATION PROCESS TO PURIFY

**6 MILLION**

GALLONS OF WATER A DAY

